

SIGNAL DISTORTION TEST SET (DXD)

PARTS

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PAINT FINISH COLOR CODE CHART

(for parts and assemblies requiring a paint finish)

Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Beige		ET			Gray, Federal	BV	GG		
Beige, Light		EL			Gray, Green	BK	GA (45)		
Beige, Rose		ER			Gray, Light	EJ			HB (68)
Black	AA (37)				Gray, Covert				HE
Black, High Gloss		BA (34)			Gray, Olive	EW	GE		HF (46)
Black, Semi Gloss		BB			Gray, Maritime				
Blue, Aqua		EK			Deck	AJ	BJ		
Blue, Brussels Light		EC			Gray, Oxford		EP		
Blue, Medium		ES			Green, Gray	AB (40)	BK		
Brown, Dark	AD (38)				Green, Moss		EN	GA (45)	
Brown, Light	AC (39)				Ivory		EM		HD
Fawn					Pink, Rose		EU		
Gray, Beige					Turquoise		EV		
Gray, Charcoal	AL	BZ	GC	HA	White		EH		
Gray, Dark			GF		Yellow, Pastel		EG		

The double asterisk (\*\*) denotes a painted part. Suffix to be applied following the part number.  
Number in parentheses indicates Bell System code.

Note:

When ordering parts from this section,  
prefix each number with the letters TP.

VARIATIONS IN SIGNAL DISTORTION TEST SETS CATALOGED IN THIS SECTION					
Teletype Code	DXD1	DXD3	DXD5	DXD200** (DXD200AA formerly DXD4)	DXD800**
Bell System Code				1A**	1B**
Code Level	5	6	5	5	8
Unit Code	7.42	8-3/8	7.42	7.42	11.0
Transmits repeated R, Y or test message	Yes	Yes	Yes	Yes	Yes
Transmits repeated T, O, M, V, LETTERS, BLANK or code length marking impulse	No	No	Yes	Yes	No
Brake (for signal measuring scale ring)	Included	Not Included	Not Included	Not Included	Not Included
Hood (for improved visibility of code signals)	Not Included	Not Included	Included	Included	Included
Switch (for stop pulse)	Not Included	Not Included	Included	Included	See Note 1
Line and Power Cords	Not Included	Power cord included	Included	Included	Included
Associated Motor Units (See Note 2)	MU4, MU26	MU4, MU26	MU4, MU29	MU4, MU26	MU4, MU26
Wiring Diagram	2151WD	1653WD	2196WD	1653WD	4769WD

NOTE 1: 8th Pulse Marking Switch

NOTE 2: For best results a synchronous motor unit should be used.

If regulated AC power is not available, governed motors may be used but the signal viewed on the stroboscope will be somewhat unstable.

UNIT DESCRIPTION	TELETYPE CODE	BELL SYSTEM CODE
Teletypewriter Test Set	DXD200**	1A**
Teletypewriter Test Set	DXD800**	1B**
Motor Unit	MU4	15D
Gear Sets	96473 (368 OPM, 60 Cycle Synchronous 96474 (460 OPM, 60 Cycle Synchronous 96572 (368 OPM, AC or DC Governed) 96573 (460 OPM, AC or DC Governed) 110897 (600 OPM, 60 Cycle Synchronous	1A 1B 1C 1D 1E

\*\*Refer to page 1 for finish suffix

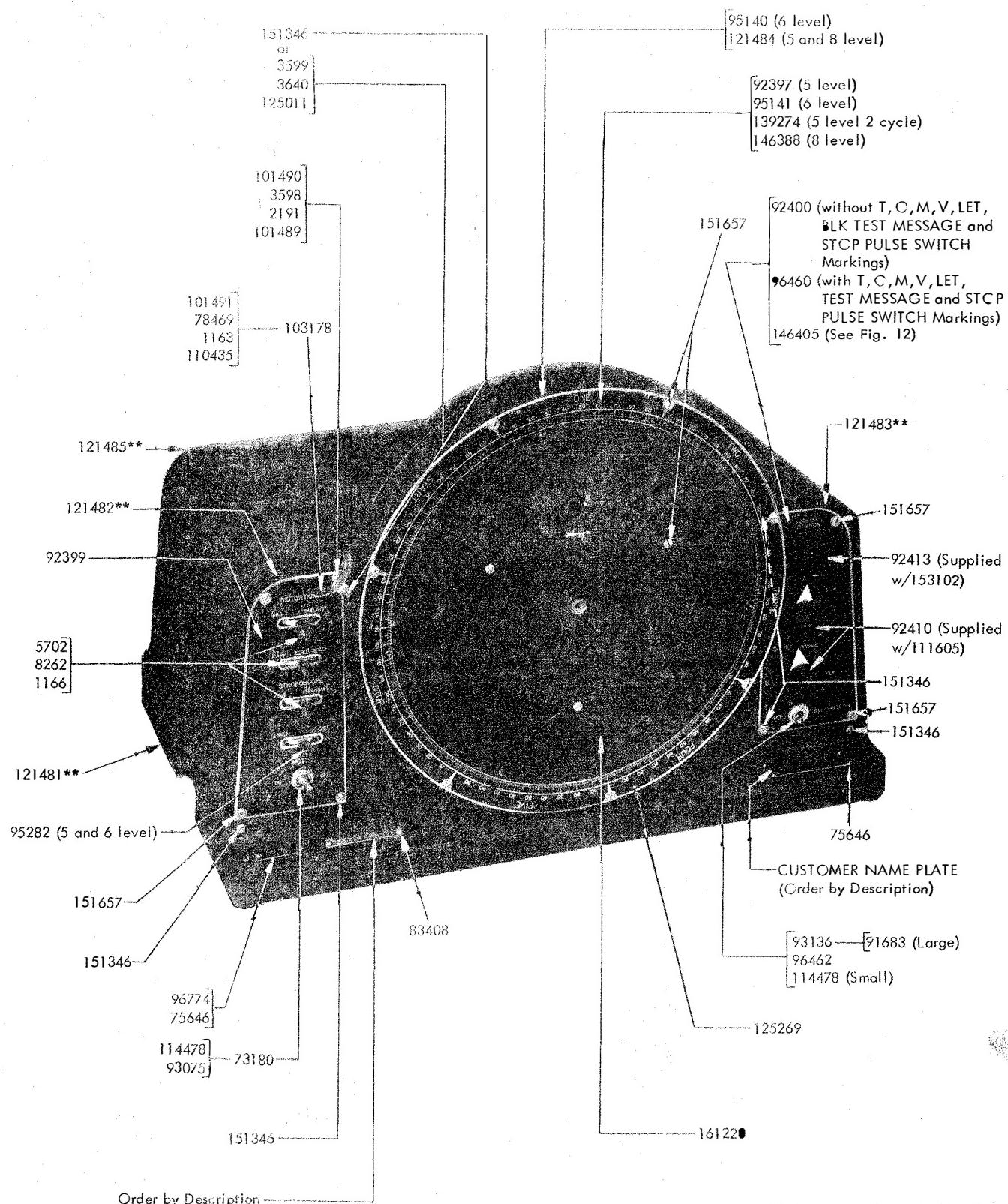
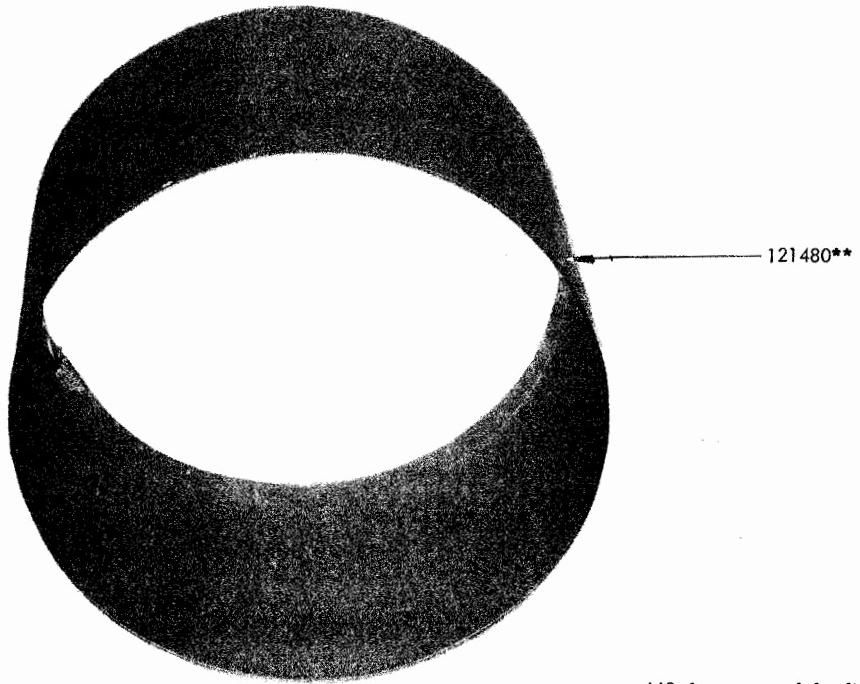
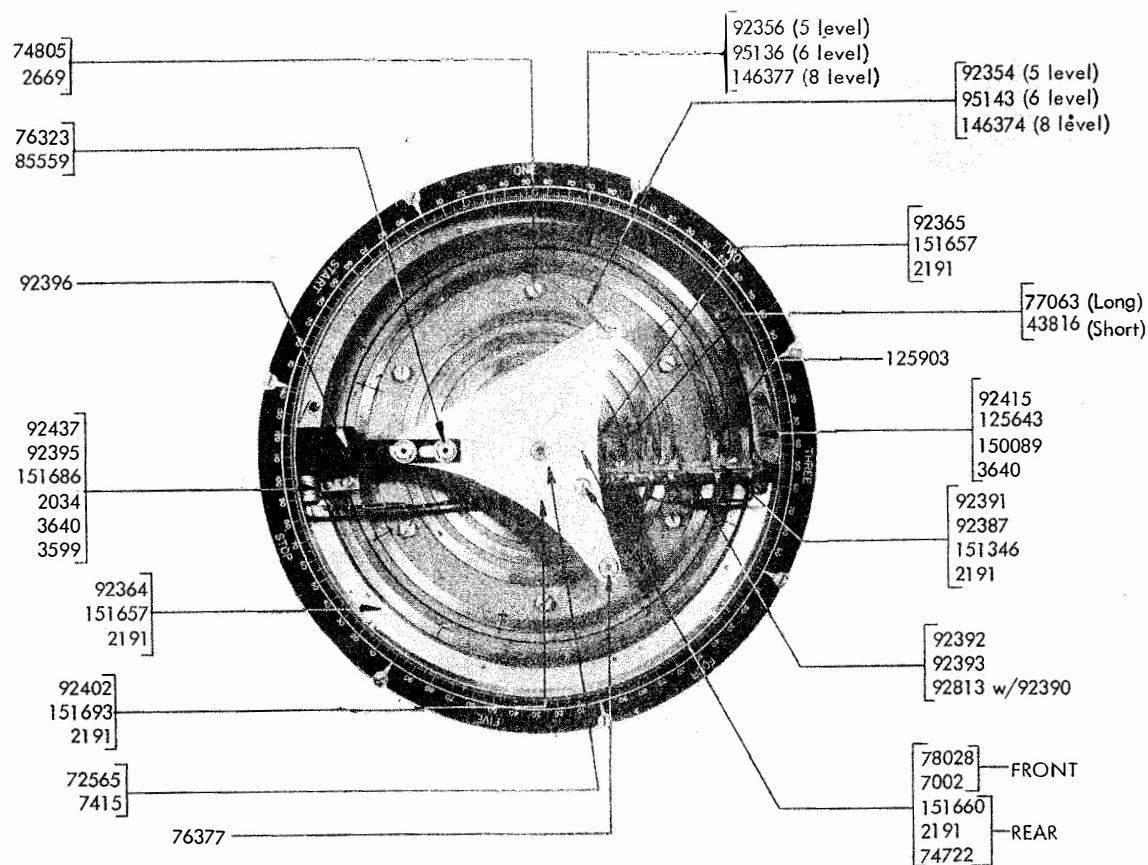


FIGURE 1. PANELS, COVER AND BASE

\*\*Refer to page 1 for finish suffix



\*\*Refer to page 1 for finish suffix

FIGURE 2. DISK MECHANISM AND HOOD

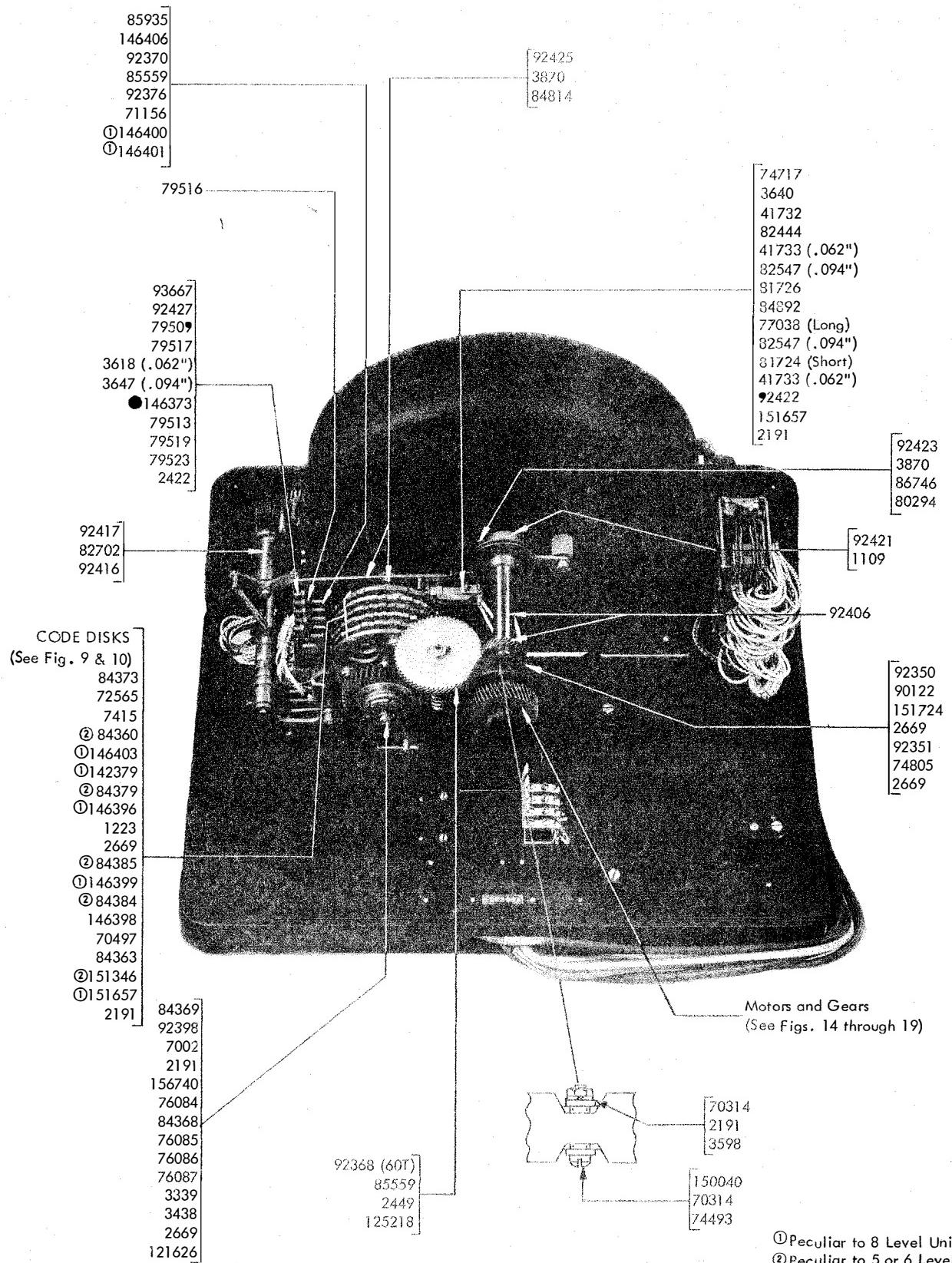
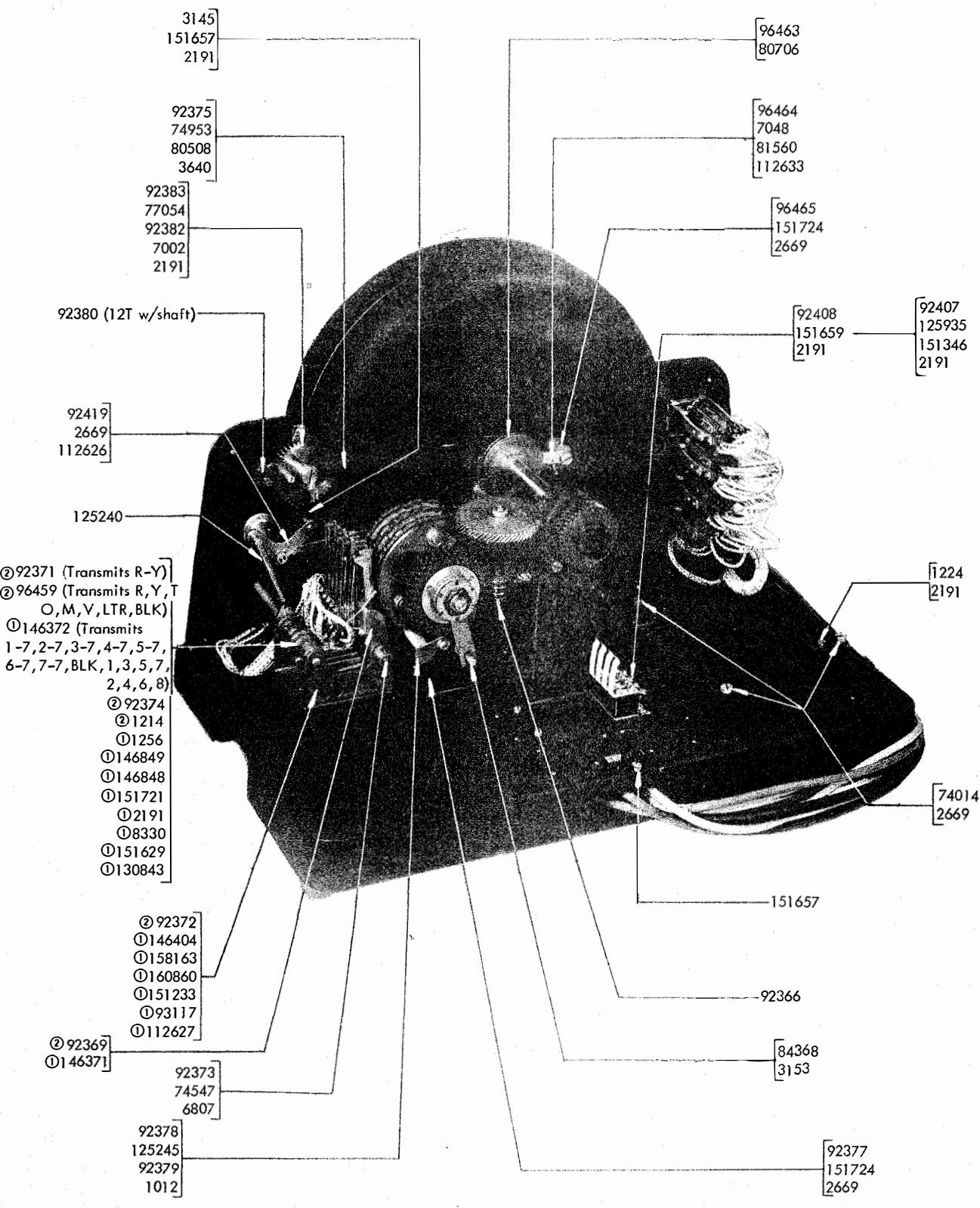


FIGURE 3. CONTACT AND CODE DISK MECHANISM



①Peculiar to 8 Level Unit  
 ②Peculiar to 5 or 6 Level Unit

FIGURE 4. CODE CYLINDER AND COMPONENTS

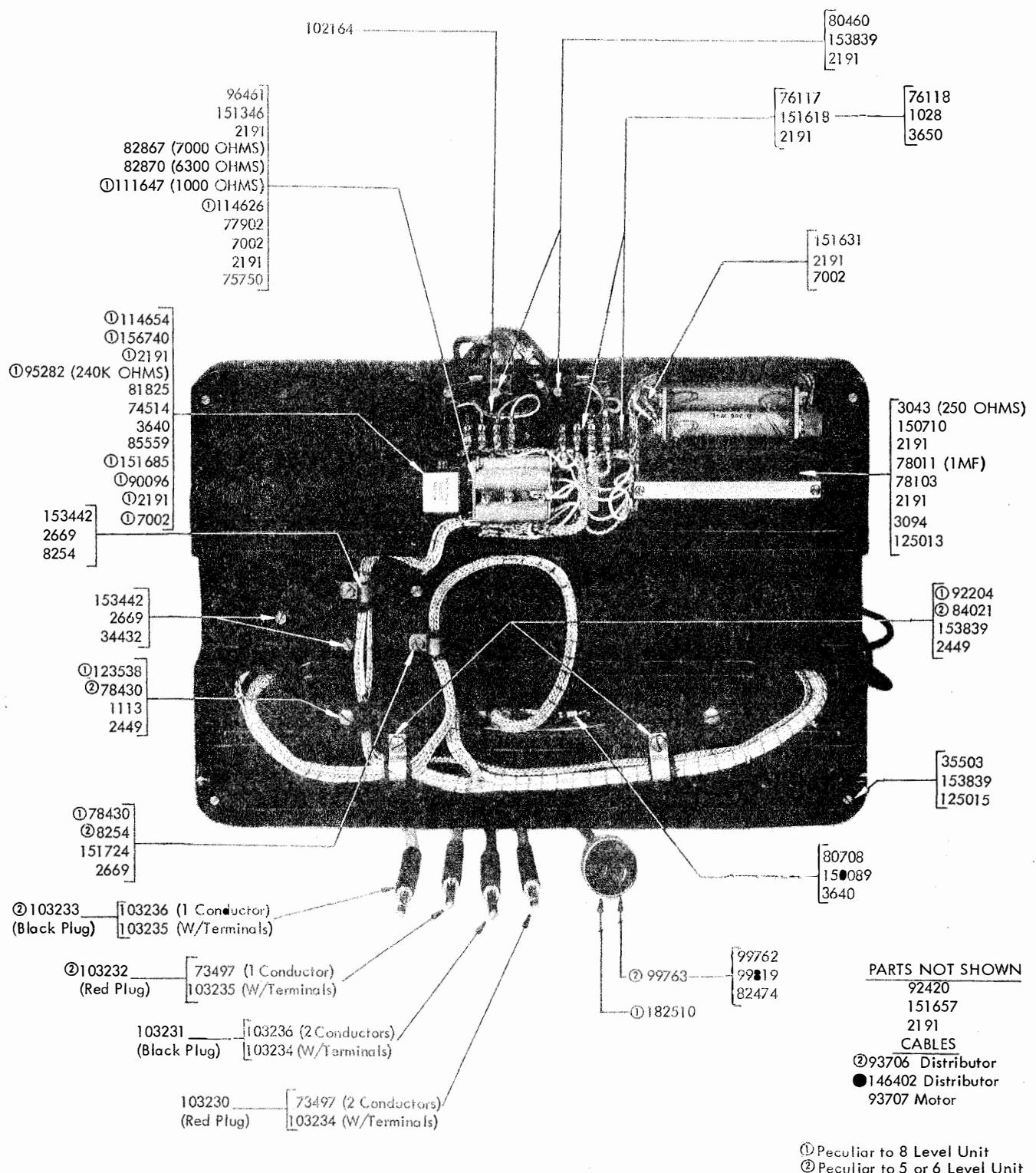


FIGURE 5. BASE WITH ELECTRICAL COMPONENTS (BOTTOM VIEW)

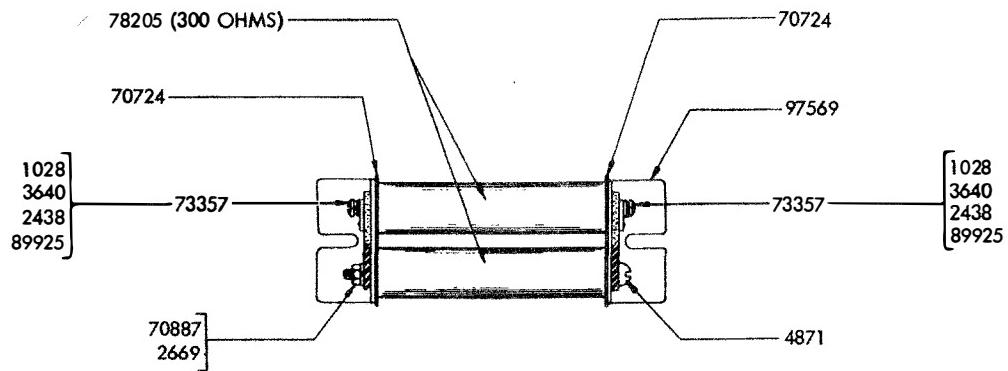


FIGURE 6. 96814 RESISTOR ASSEMBLY 150-300-600 OHMS

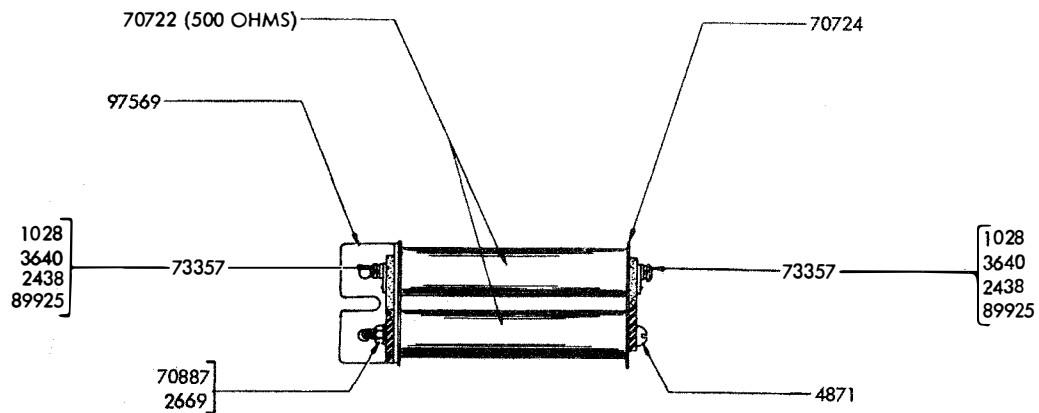


FIGURE 7. 97571 RESISTOR ASSEMBLY 250-500-1000 OHMS

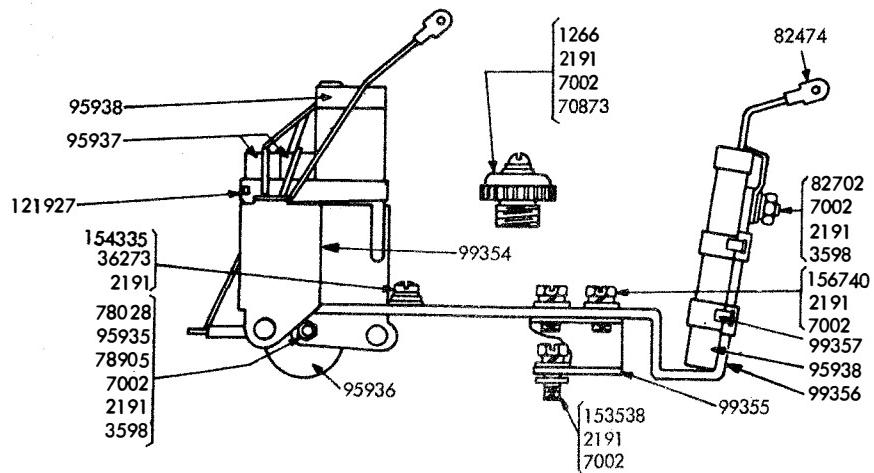
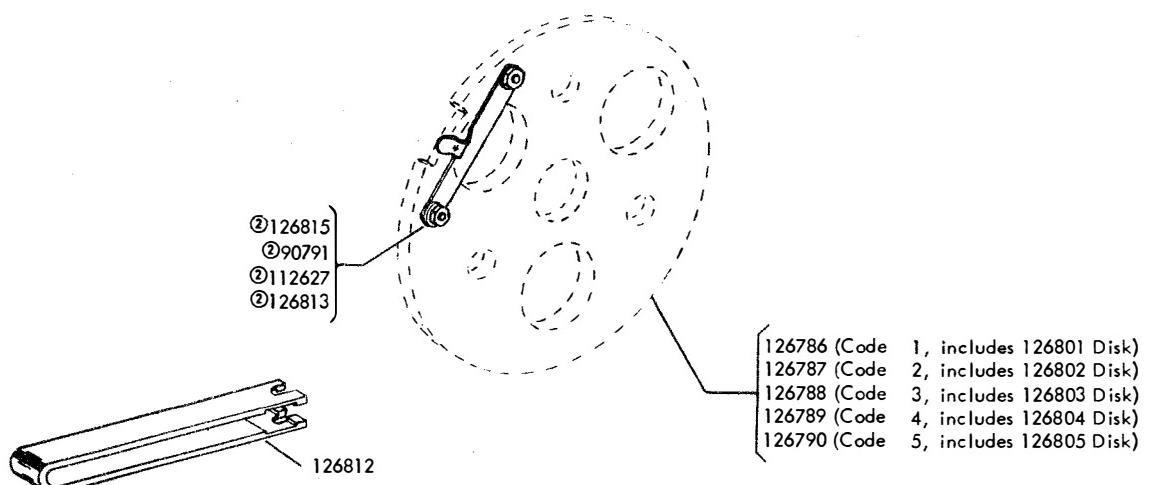


FIGURE 8. 99250 SUPPRESSOR ASSEMBLY



## INTERCHANGEABLE SEGMENTS

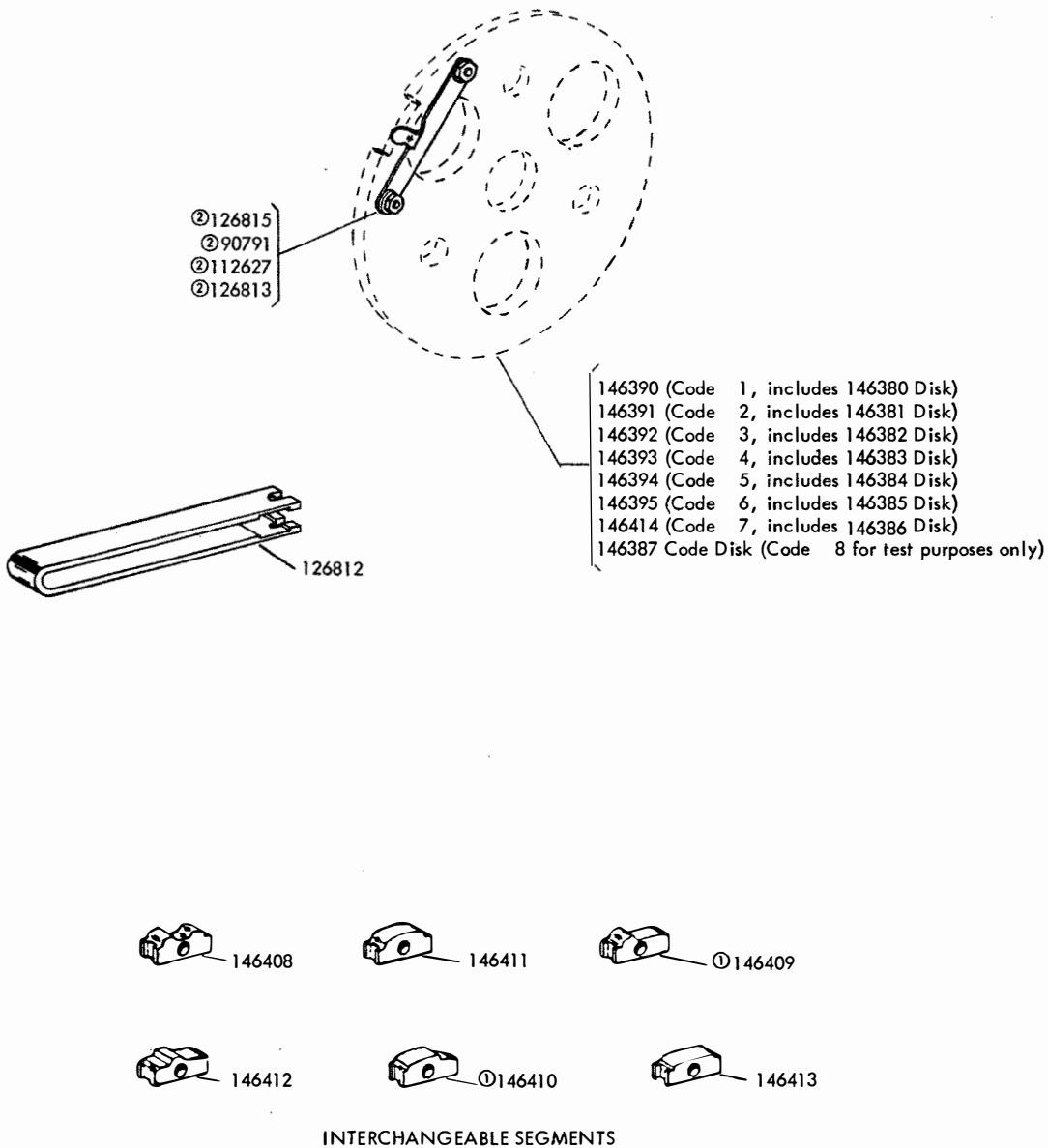
CODE DISK	#1	#2	#3	#4	#5	#0	
NEW STYLE ASSEMBLY NUMBER	126786	126787	126788	126789	126790	87406 (BLANK)	
OLD STYLE PART NUMBER	87145 87393 87409 87410 87411 87412 92433 104093 112585	87146 87394 87413 87414 87415 101273 104767 105172 107490	87147 87151 87395 87416 87417 87418 96475 96476 96477	87148 87152 87396 87419 87420 87421 96478 103798 112586	87149 87153 87397 87422 87423 87424 96479 103799 105173	87406	

WHEN AN OLD STYLE DISK IS ORDERED BY THE PART NUMBER STAMPED ON THE DISK, A NEW STYLE DISK WITH THE PROPER SEGMENT INSTALLED WILL BE FURNISHED.

SPECIFICATION 5715S

①Reversible in position  
 ②To be supplied with the 126786, 126787, 126788, 126789 and 126790 Disk Assemblies

FIGURE 9. 115836 MODIFICATION KIT TO EQUIP 5 LEVEL UNITS WITH INTERCHANGEABLE SEGMENT CODE DISKS



SPECIFICATION 57155

①Reversible in position

②To be supplied with the 146390, 146391, 146392,  
146393, 146394, 146395, 146414 and 146387 Disk Assemblies

FIGURE 10. INTERCHANGEABLE SEGMENT CODE DISKS FOR 8 LEVEL UNIT

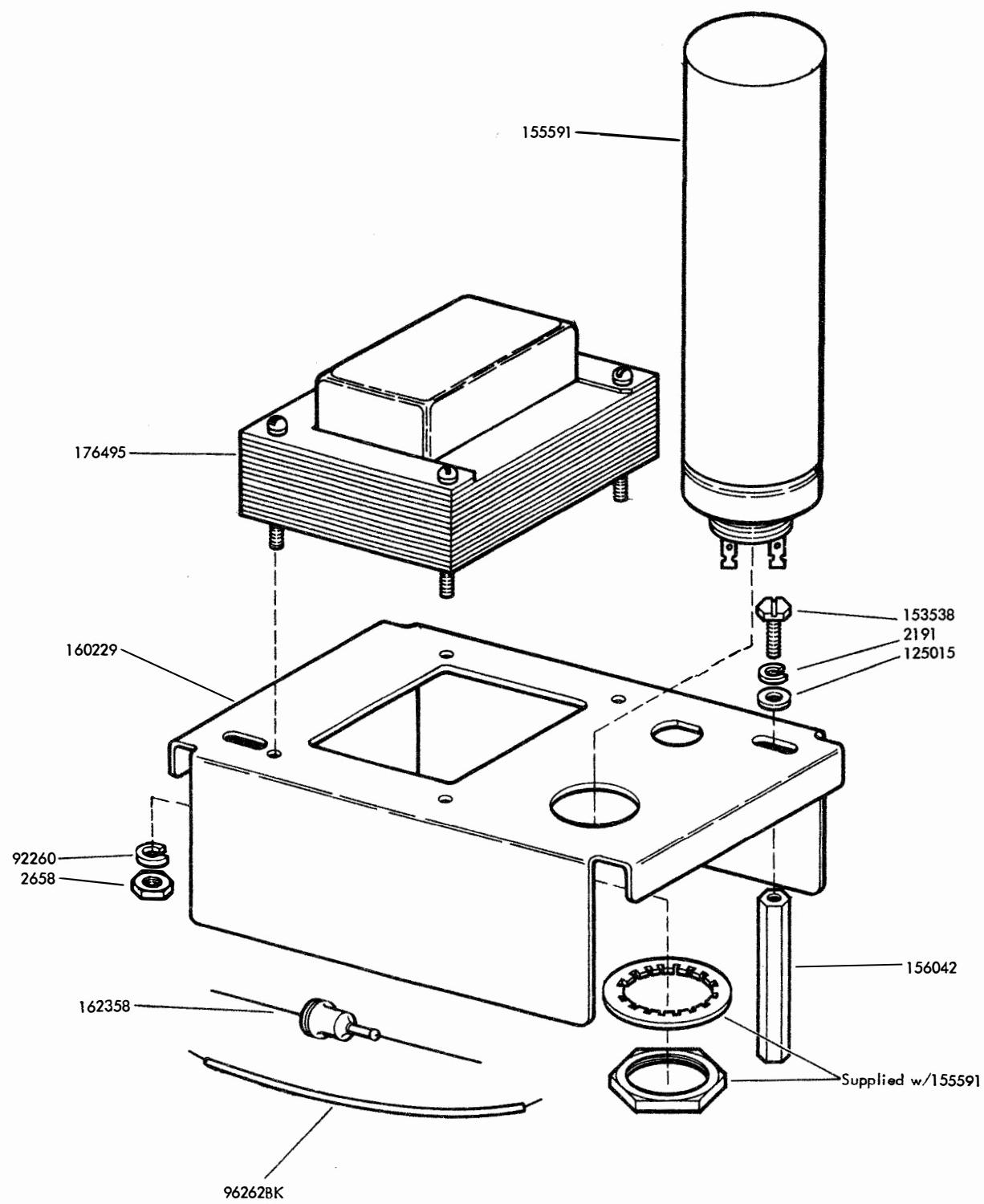
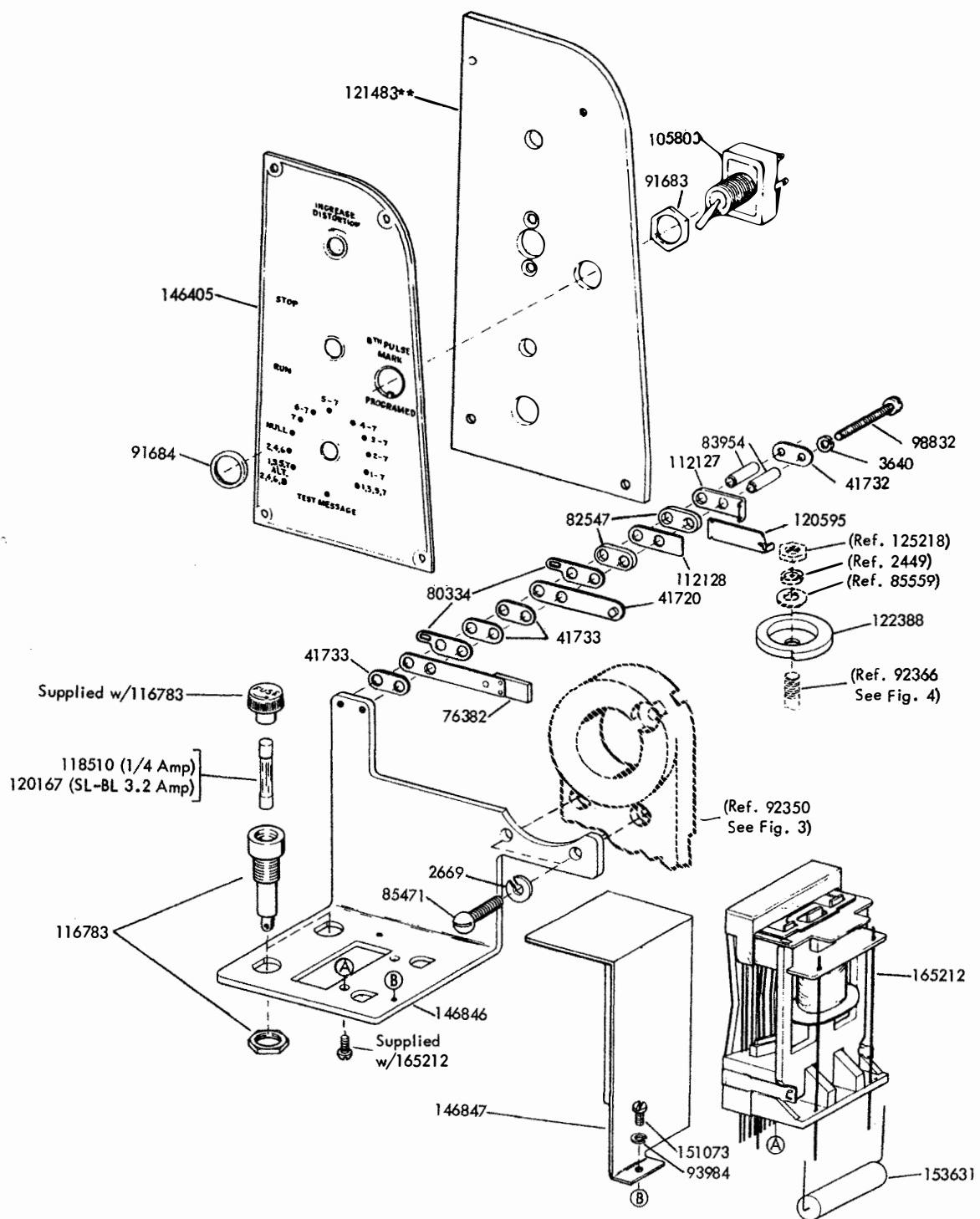
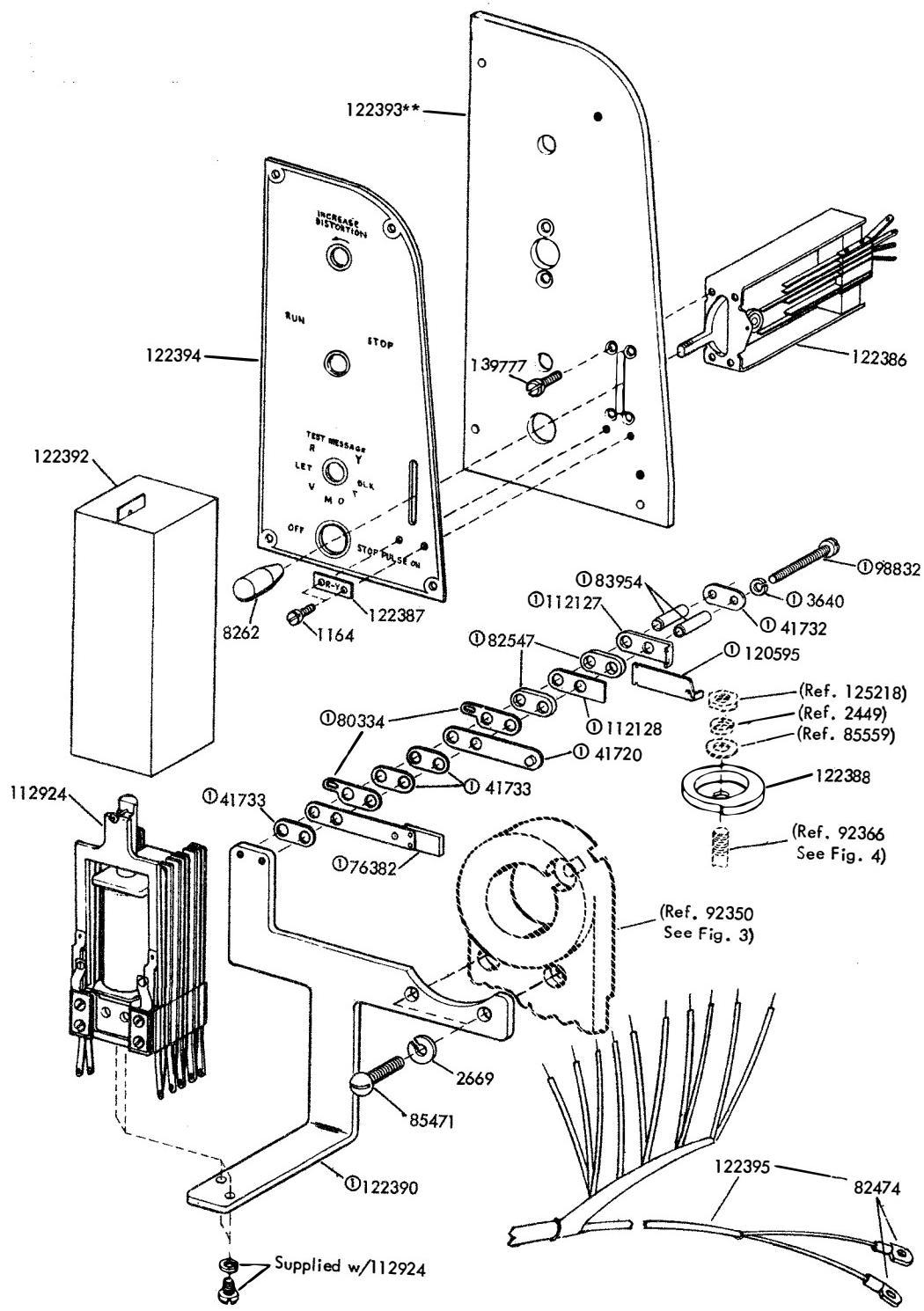


FIGURE 11. 176496 RECTIFIER ASSEMBLY



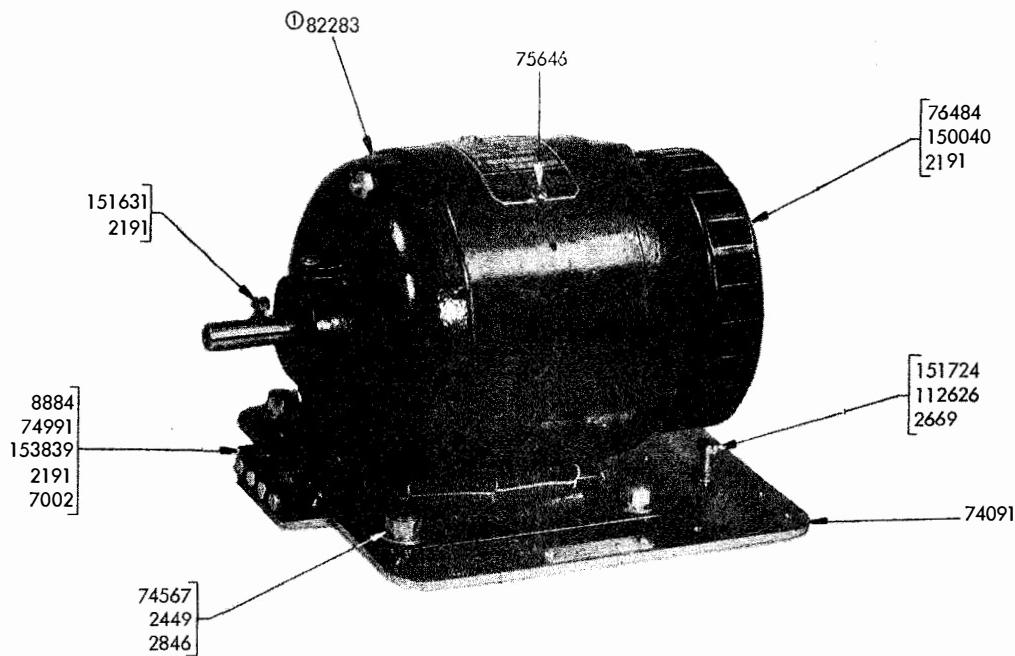
\*\*Refer to page 1 for finish suffix

FIGURE 12. ALTERNATE 1,3,5,7,2,4,6,8 MECHANISM FOR 8 LEVEL UNIT ONLY

SPECIFICATION 5 795

\*\*Refer to page 1 for finish suffix  
 ①122389 Contact Assembly

FIGURE 13. 122391\*\* MODIFICATION KIT FOR TRANSMISSION OF ALTERNATE R-Y SIGNALS (5 LEVEL)



① See Bulletin 1147B for Component Parts

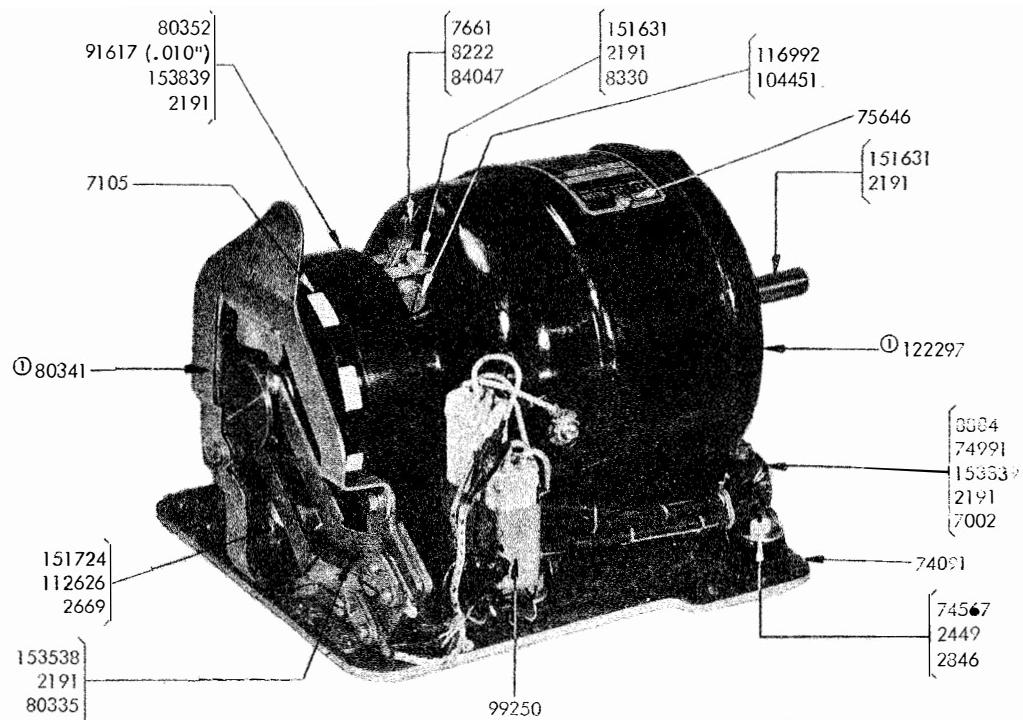
FIGURE 14. SYNCHRONOUS MOTOR UNIT (MU4)



GEAR SETS FOR SYNCHRONOUS MOTORS (ORDERED SEPARATELY)			
SPEED (OPM)	GEAR SET	PINION	GEAR
334.88	107309	107301-8T	107300-43T
367.92	106957	116795-13T	116794-53T
368	96473	102662-9T	102663-44T
390 - 7.00 Unit Code	139269	139271-13T	139270-60T
403.85 - 49.96 Baud	121881	121882-14T	121883-52T
404.08 - 49.99 Baud	114465	114463-11T	114464-49T
420	122226	122105-7T	122106-30T
460	96474	102669-12T	102670-47T
525	122093	122094-14T	122095-48T
600	110897	110889-12T	110890-36T
636 - 7.00 Unit Code	139389	139390-12T	139391-34T
* 428.57 - 50 Baud	143329	143330-10T	143331-42T
*642.86 - 75 Baud	143332	143333-20T	143334-56T

\*For 7.00 Unit Transmission of 5 Level Code

FIGURE 15. GEAR SETS CHART FOR SYNCHRONOUS MOTOR



① See Bulletin 1147B for Component Parts  
Supplied w/105394 Cable (Not Shown)

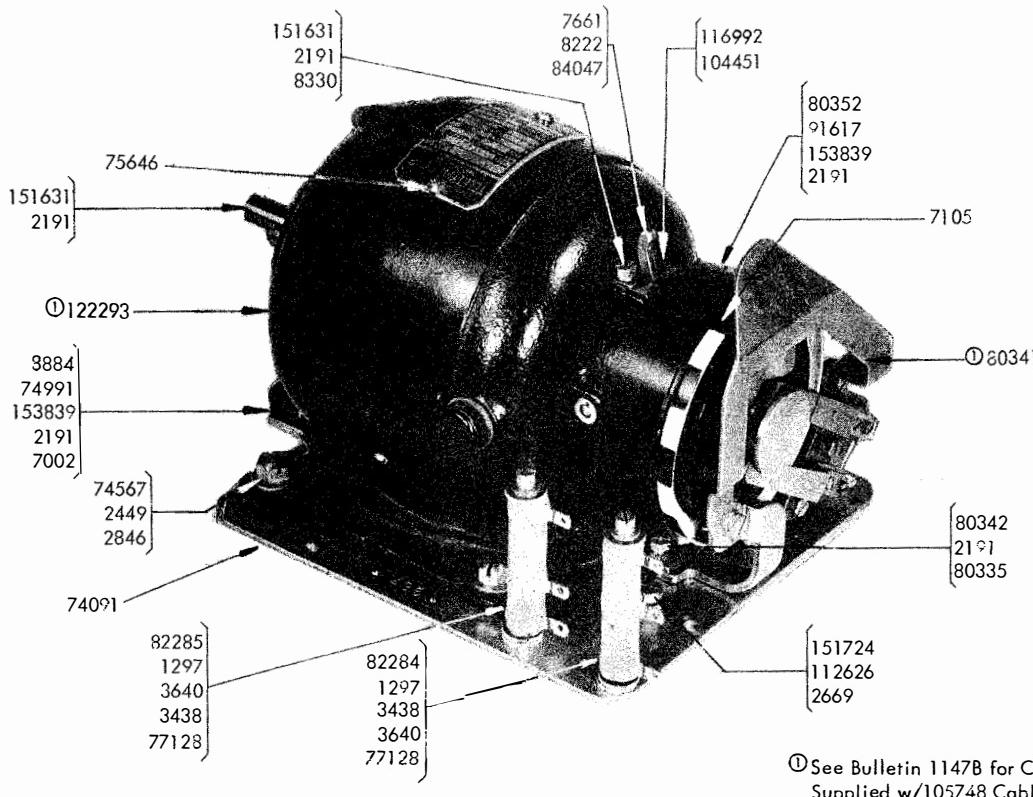
FIGURE 16. GOVERNED MOTOR UNIT (MU26)



GEAR SETS FOR SERIES MOTORS (ORDERED SEPARATELY)			
SPEED (OPM)	GEAR SET	PINION	GEAR
368	96572	102667-7T	102668-40T
*404-50 Baud	96572	102667-7T	102668-40T
420	122855	122856-9T	122857-45T
460	96573	102666-7T	102665-32T
525	122852	122853-9T	122854-36T
600	113210	110898-10T	110899-35T

\*Use 104984 tuning fork to achieve 2303 rpm on motor

FIGURE 17. GEAR SETS CHART FOR SERIES MOTOR



① See Bulletin 1147B for Component Parts  
Supplied w/105748 Cable (Not Shown)

FIGURE 18. GOVERNED MOTOR UNIT (MU29)

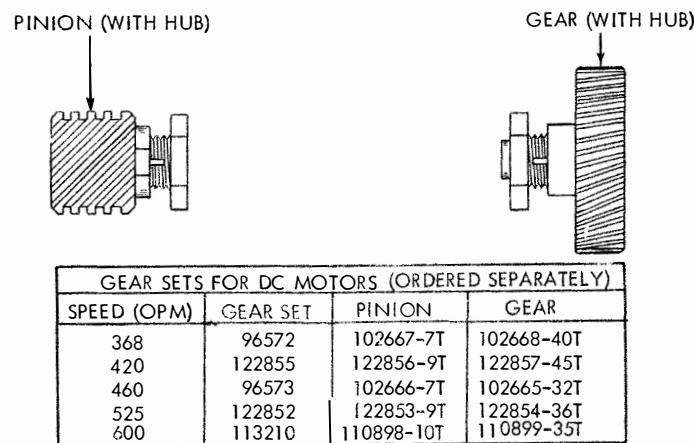


FIGURE 19. GEAR SETS CHART FOR DC MOTOR

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1012	Screw (6-40 Shoulder) 6	74091	Plate, Motor 14, 15, 16	84021	Clamp, Cable 7
1028	Screw (4-40 x 1/4 Fil) 7, 8	74493	Bushing 5	84047	Plate, Stop 15, 16
1109	Screw (8-32 x 5/16 Fil) 5	74514	Screw (4-40 x 55/64 Fil) 7	84360	Shaft 5
1113	Screw (1/4-20 x 7/8 Hex) 7	74547	Collar 6	84363	Cover, Code Disk Hub 5
1163	Screw (4-40 x 3/16 Fil) 3	74567	Screw (1/4-20 x 33/64 Hex) 14, 15, 16	84368	Arm, Clutch 5, 6
1164	Screw (2-56 x 3/16 Fil) 13	74717	Screw (4-40 x 23/32 Fil) 5	84369	Sleeve, Friction 5
1166	Screw (4-36 x 1/4 Flat) 3	74722	Washer, Flat 4	84373	Bushing, Bearing 5
1214	Screw (10-32 Set) 6	74805	Screw (10-32 x 3/4 Hex) 4, 5	84379	Hub, Code Disk 5
1223	Screw (10-32 x 1/2 Fil) 5	74953	Screw (4-40 x 13/16 Fil) 6	84384	Spacer 5
1224	Screw, Adjusting (6-40) 6	74991	Insulator (.016" Thk) 14, 15, 16	84385	Stud, Code Disk 5
1256	Screw, Set (6-40) 6	75646	Screw (#0 x 3/16 Drive) 3, 14, 15, 16	84814	Screw (6-40 Shoulder) 5
1266	Screw (6-32 x 7/16 Rd) 8	75750	Washer, Insulating 7	84892	Stiffener 5
1297	Screw (6-40 x 2-7/16 Fil) 16	76084	Washer, Felt 5	85471	Screw (10-32 x 1 Hex) 12, 13
2034	Washer, Flat 4	76085	Disk, Friction 5	85559	Washer, Flat 4, 5, 7, 12, 13
2191	Washer, Lock 3 to 8, 11, 14, 15, 16	76086	Washer, Spring 5	85935	Post, Spring 5
2422	Washer, Lock 5	76087	Nut (9/16-32 Friction) 5	86746	Screw (6-40 Shoulder) 5
2438	Washer, Flat 8	76117	Block, Terminal 7	87145	Disk, #1 Code 9
2449	Washer, Lock 5, 7, 12 to 16	76118	Block, Terminal 7	87146	Disk, #2 Code 9
2658	Nut (6-32 Hex) 11	76323	Bushing 4	87147	Disk, #3 Code 9
2669	Washer, Lock 4 to 8, 12 to 16	76377	Bushing 4	87148	Disk, #4 Code 9
2846	Washer, Flat 14, 15, 16	76382	Spring, Contact 12, 13	87149	Disk, #5 Code 9
3043	Resistor (250 Ohm) 7	76484	Fan 14	87151	Disk, #3 Code 9
3094	Insulator 7	77038	Spring, Contact 5	87152	Disk, #4 Code 9
3145	Plate, Stop 6	77054	Stud 6	87153	Disk, #5 Code 9
3153	Post, Spring 6	77063	Stud (4-40) 4	87393	Disk, 1T Code 9
3339	Nut (9/16-32 Hex) 5	77128	Washer, Insulating 16	87394	Disk, 2T Code 9
3438	Washer, Flat 5, 16	77902	Screw (6-40 x 2-3/8 Rd) 7	87395	Disk, 3T Code 9
3598	Nut (6-40 Hex) 3, 5, 7, 8	78011	Capacitor (1 mfd) 7	87396	Disk, 4T Code 9
3599	Nut (4-40 Hex) 3, 4	78028	Screw (6-40 x 5/16 Hex) 4, 8	87397	Disk, 5T Code 9
3618	Insulator (.062" Thk) 5	78103	Screw (6-40 x 1-3/16 Hex) 7	87406	Disk, Code 9
3640	Washer, Lock 3 to 8, 12, 13, 16	78205	Resistor (300 Ohm) 8	87409	Disk, Code 9
3647	Insulator (.094" Thk) 5	78430	Clamp, Cable 7	87410	Disk, Code 9
3650	Washer, Flat 7	78469	Foot, Rubber 3	87411	Disk, Code 9
3870	Spring 5	78905	Washer, Insulating 8	87412	Disk, Code 9
4871	Bolt (10-24 x 4 Rd) 8	79509	Spring, Contact 5	87413	Disk, Code 9
5702	Key 3	79513	Plate, Contact Top 5	87414	Disk, Code 9
6807	Screw (6-40 Set) 6	79516	Shield, Contact Spring 5	87415	Disk, Code 9
7002	Washer, Flat 4 to 8, 14, 15, 16	79517	Stiffener 5	87416	Disk, Code 9
7048	Screw (10-32 Shoulder) 6	79519	Bushing, Insulating 5	87417	Disk, Code 9
7105	Target (10 Spot) 15, 16	79523	Screw (2-56 x 25/32 Fil) 5	87418	Disk, Code 9
7415	Nut (1/2-32 Hex) 4, 5	80294	Post, Spring 5	87419	Disk, Code 9
7661	Lever 15, 16	80334	Terminal, Contact 12, 13	87420	Disk, Code 9
8222	Strip 15, 16	80335	Plate 15, 16	87421	Disk, Code 9
8254	Clamp, Cable 7	80341	Bracket Assembly 15, 16	87422	Disk, Code 9
8262	Knob 3, 13	80342	Screw (6-40 x 23/64 Hex) 16	87423	Disk, Code 9
8330	Washer, Flat 6, 15, 16	80352	Governor Assembly 15, 16	87424	Disk, Code 9
8884	Block, Terminal 14, 15, 16	80460	Clamp, Cable 7	89925	Terminal 8
34432	Washer, Flat 7	80508	Screw (4-40 x 25/32 Fil) 6	90096	Washer, Insulating 7
35503	Foot, Rubber 7	80706	Screw (6-40 Set) 6	90122	Bearing, Ball 5
36273	Washer, Flat 8	80708	Clamp, Cable 7	90791	Washer, Lock 9, 10
41720	Spring, Contact 12, 13	81560	Post, Spring 6	91617	Shim (.010" Thk) 15, 16
41732	Plate, Clamp 5, 12, 13	81724	Spring, Contact 5	91683	Nut (15/32-32 Hex) 3, 12
41733	Insulator (.062" Thk) 5, 12, 13	81726	Terminal 5	91684	Nut (15/32-32 Ring) 12
43816	Stud (2-56) 4	81825	Capacitor (.01 mfd) 7	92204	Clamp, Cable 7
70314	Washer, Flat 5	82283	Motor, Synchronous (110 V AC) 14	92260	Washer, Lock 11
70497	Nut (5/16-32 Hex) 5	82284	Resistor (70 Ohm) 16	92350	Bearing, Rear 5, 12, 13
70722	Resistor (500 Ohm) 8	82285	Resistor (300 Ohm) 16	92351	Bracket, Bearing 5
70724	Insulator (.015" Thk) 8	82444	Bushing, Insulating 5	92354	Disk Assembly, Inner Segment 4
70873	Cap, Contact Brush 8	82474	Terminal 7, 8, 13	92356	Disk Assembly, Outer Segment 4
70887	Nut (10-24 Hex) 8	82547	Insulator (.094" Thk) 5, 12, 13	92364	Segment, Retaining 4
71156	Shim (.010" Thk) 5	82702	Screw (6-40 x 9/32 Flat) 5, 8	92365	Plate, Retaining 4
72565	Washer, Lock 4, 5	82867	Resistor (7000 Ohm) 7	92366	Shaft, Intermediate 6, 12, 13
73180	Switch, Toggle (SP-ST) 3	82870	Resistor (6300 Ohm) 7	92368	Gear (60T) 5
73357	Terminal Assembly 8	83408	Screw (4-40 x 3/16 Rd) 3	92369	Bail, Contact 6
73497	Plug, Red Shell 7	83954	Bushing, Insulating 12, 13	92370	Lever, Contact 5
74014	Screw (10-32 x 3/4 Hex) 6			92371	Cylinder, Code 6
				92372	Bracket 6

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
92373	Shaft, Contact Bail 6	96476	Disk, #3 Code 9	112128	Retainer 12, 13
92374	Shaft 6	96477	Disk, #3 Code 9	112585	Disk, #1 Code 9
92375	Segment, Gear 6	96478	Disk, #4 Code 9	112586	Disk, #4 Code 9
92376	Spacer (.221" Thk) 5	96479	Disk, #5 Code 9	112626	Nut (10-32 Hex) 6, 14, 15, 16
92377	Bearing, Code Disk 6	96572	Gear Set 2, 15, 16	112627	Nut (2-56 Hex) 6, 9, 10
92378	Holder, Oil Wick 6	96573	Gear Set 2, 15, 16	112633	Spring w/Wick 6
92379	Wick, Oil 6	96774	Plate 3	112924	Relay 13
92380	Pinion w/Shft (12T) 6	96814	Resistor Assembly (150-300-600 Ohm) 1, 8	113210	Gear Set 15, 16
92382	Screw (1/4-32 Shoulder) 6	97569	Bracket 8	114463	Pinion (11T) 14
92383	Gear (48T) 6	97571	Resistor Assembly (250-500-1000 Ohm) 1, 8	114464	Gear (49T) 14
92387	Insulator (.0312" Thk) 4			114465	Gear Set 14
92390	Terminal 4			114478	Nut (15/32-32 Hex) 3
92391	Plate, Clamp 4	98832	Screw (4-40 x 11/16 Fil) 12, 13	114626	Screw (6-40 x 2-1/16 Fil) 7
92392	Arm, Brush 4	99250	Filter Assembly 1, 8, 15	114654	Strip, Terminal 7
92393	Clamp, Brush Arm 4	99354	Container 8	115836	Modification Kit 1, 9
92395	Clamp, Lamp 4	99355	Bracket 8	116783	Holder, Fuse 12
92396	Arm, Lamp Indicator 4	99356	Bracket 8	116794	Gear (53T) 14
92397	Scale, Signal Measuring 3	99357	Clip 8	116795	Pinion (13T) 14
92398	Gear (40T) 5	99762	Connector, Plug (2 Pt) 7	116992	Screw (1/4-32 Pilot) 15, 16
92399	Plate, Panel 3	99763	Cord Assembly 7	118510	Fuse (1/4 Amp) 12
92400	Plate, Panel 3	99819	Cord 7	120167	Fuse (3.2 Amp SL-BL) 12
92402	Hub 4	101273	Disk 9	120595	Follower, Cam 12, 13
92406	Shaft w/Gear 5	101489	Spring, Torsion 3	121480**	Cover, Scale 4
92407	Block, Terminal 6	101490	Stud, Brake Lever 3	121481**	Base 3
92408	Block, Terminal 6	101491	Lever, Brake 3	121482**	Panel, Left 3
92410	Knob w/Screw 3	102164	Plate, Name 7	121483**	Panel, Right 3, 12
92413	Knob w/Screw 3	102662	Pinion (9T) 14	121484	Ring, Scale Mounting 3
92415	Spring, Friction 4	102663	Gear (44T) 14	121485**	Cover 3
92416	Shaft 5	102665	Gear (32T) 15, 16	121626	Lever, Contact 5
92417	Bearing 5	102666	Pinion (7T) 15, 16	121881	Gear Set 14
92419	Plate, Stop 6	102667	Pinion (7T) 15, 16	121882	Pinion (14T) 14
92420	Plate, Base 7	102668	Gear (40T) 15, 16	121883	Gear (52T) 14
92421	Cam, Contact 5	102669	Pinion (12T) 14	121927	Clip 8
92422	Bracket, Contact 5	102670	Gear (47T) 14	122093	Gear Set 14
92423	Latch, Contact 5	103178	Lever Assembly, Brake 3	122094	Pinion (14T) 14
92425	Lever 5	103230	Cord 7	122095	Gear (48T) 14
92427	Spring, Contact 5	103231	Cord Assembly 7	122105	Pinion (7T) 14
92433	Disk, Code 9	103232	Cord 7	122106	Gear (30T) 14
92437	Lamp, Neon 4	103233	Cord 7	122293	Motor, Shunt (110 V DC) 16
92813	Insulator w/Terminals 4	103234	Cord 7	122297	Motor, AC Series (95-130 V) 15
93075	Nut (15/32-32 Shoulder Ring) 3	103235	Cord 7	122226	Gear Set 14
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